

CLAIMS

1. A deficiency detecting apparatus, which detects deficiencies on an information medium that are unable to be recorded or reproduced when an information signal is recorded / reproduced with respect to the information medium using a light beam generated by a laser light source, comprising:
 - a power adjusting section for adjusting an emitting power of the laser light source to an optimum value; and
 - a deficiency detecting section for comparing a threshold value determined in accordance with the emitting power of the laser light source adjusted by the power adjusting section with a value corresponding to reflected light that is the light beam reflected by an information layer of the information medium, and detecting the deficiencies on the information layer in accordance with a result of the comparison.
2. The deficiency detecting apparatus according to claim 1, wherein the deficiency detecting section determines the threshold value in accordance with an emitting power selected from a predetermined range of laser power.
3. The deficiency detecting apparatus according to claim 1 or 2, wherein the deficiency detecting section determines the threshold value in accordance with an average value of the emitting power adjusted by the power adjusting section.
4. The deficiency detecting apparatus according to claim 1 or 2, wherein the emitting power adjusted by the power adjusting section is composed of plural power levels, and the deficiency detecting section determines the threshold value in accordance with a value obtained by summing the plural power levels at predetermined rates.
5. The deficiency detecting apparatus according to claim 1 or 2, wherein the emitting power adjusted by the power adjusting section is composed of plural power levels, and the deficiency detecting section determines the threshold value in accordance with the highest power level among the plural power levels.

6. The deficiency detecting apparatus according to claim 1 or 2,
wherein the emitting power adjusted by the power adjusting section
is composed of plural power levels, and

5 the deficiency detecting section determines the threshold value in
accordance with an erasing power level that is used for erasing among the
plural power levels.

7. A deficiency detecting apparatus, which detects deficiencies on an
information medium that are unable to be recorded or reproduced when an
10 information signal is recorded / reproduced with respect to the information
medium using a light beam generated by a laser light source, comprising:
a power adjusting section for adjusting an emitting power of the
laser light source to an optimum value; and
a deficiency detecting section for amplifying a signal corresponding
15 to reflected light that is the light beam reflected by an information layer of
the information medium at an amplification factor determined in accordance
with the emitting power of the laser light source adjusted by the power
adjusting section so as to generate a signal for amplified reflected light
amount, and for comparing a value corresponding to the signal for the
20 amplified reflected light amount with a predetermined threshold value and
detecting the deficiencies on the information layer in accordance with a
result of the comparison.

8. The deficiency detecting apparatus according to claim 7, wherein the
25 deficiency detecting section determines the amplification factor in
accordance with an emitting power selected from a predetermined range of
laser power.

9. The deficiency detecting apparatus according to claim 7 or 8,
30 wherein the deficiency detecting section determines the amplification factor
in accordance with an average value of the emitting power adjusted by the
power adjusting section.

10. The deficiency detecting apparatus according to claim 7 or 8,
35 wherein the emitting power adjusted by the power adjusting section
is composed of plural power levels, and
the deficiency detecting section determines the amplification factor

in accordance with a value obtained by summing the plural power levels at predetermined rates.

- 5 11. The deficiency detecting apparatus according to claim 7 or 8,
 wherein the emitting power adjusted by the power adjusting section
 is composed of plural power levels, and
 the deficiency detecting section determines the amplification factor
 in accordance with the highest power level among the plural power levels.
- 10 12. The deficiency detecting apparatus according to claim 7 or 8,
 wherein the emitting power adjusted by the power adjusting section
 is composed of plural power levels, and
 the deficiency detecting section determines the amplification factor
 in accordance with an erasing power level that is used for erasing among the
15 plural power levels.